THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

- 1. A combination of polynucleotides for amplification and detection of a portion of a L. monocytogenes hlyA gene, said portion comprising the sequence set forth in SEQ ID NO:30, said combination comprising:
 - (a) a first polynucleotide primer comprising at least 7 nucleotides of the sequence as set forth in SEQ ID NO:1;
 - (b) a second polynucleotide primer comprising at least 7 nucleotides of a sequence complementary to SEQ ID NO:1; and
 - (c) a polynucleotide probe comprising at least 7 consecutive nucleotides of the sequence as set forth in SEQ ID NO:29, or the complement thereof.
- The combination of polynucleotides according to claim 1, wherein said
 polynucleotide probe comprises at least 7 consecutive nucleotides of the
 sequence as set forth in SEQ ID NO:30, or the complement thereof.
- 3. The combination of polynucleotides according to claim 1 or 2, wherein said first and second polynucleotide primers comprise at least 7 consecutive nucleotides of the sequence as set forth in any one of SEQ ID NOs: 2 to 28, or the complement thereof.
- 4. The combination of polynucleotides according to any one of claims 1, 2 or 3, wherein said portion of a *L. monocytogenes hlyA* gene is less than or equal to 140 nucleotides in length.
- 5. The combination of polynucleotides according to any one of claims 1 to 4, wherein said first polynucleotide primer comprises at least 7 consecutive nucleotides of the sequence as set forth in SEQ ID NO:31 and said second polynucleotide primer comprises at least 7 consecutive nucleotides of the sequence as set forth in SEQ ID NO:32.

- 6. A pair of polynucleotide primers for amplification of a portion of a L.

 monocytogenes hlyA gene, said portion comprising the sequence set forth in

 SED ID NO:30, said pair of polynucleotide primers comprising:
 - (a) a first polynucleotide primer comprising at least 7 nucleotides of the sequence as set forth in SEQ ID NO:1; and
 - (b) a second polynucleotide primer comprising at least 7 nucleotides of a sequence complementary to SEQ ID NO:1.
- 7. The pair of polynucleotide primers according to claim 6, wherein said first and second polynucleotide primers comprise at least 7 nucleotides of the sequence as set forth in any one of SEQ ID NOs:2 to 28.
- 8. The pair of polynucleotide primers according to claim 6 or 7, wherein said portion of a *L. monocytogenes hlyA* gene is less than or equal to 140 nucleotides in length.
- 9. The pair of polynucleotide primers according to any one of claims 6 to 8, wherein said first polynucleotide primer comprises at least 7 consecutive nucleotides of the sequence as set forth in SEQ ID NO:31 and said second polynucleotide primer comprises at least 7 consecutive nucleotides of the sequence as set forth in SEQ ID NO:32.
- 10. A method of detecting L. monocytogenes in a sample, said method comprising:
 - (a) contacting a test sample suspected of containing, or known to contain, a L. monocytogenes target nucleotide sequence with the combination of polynucleotides according to any one of claims 1 to 6 under conditions that permit amplification and detection of said target sequence, and
 - (b) detecting any amplified target sequence, wherein detection of amplified target sequence indicates the presence of *L. monocytogenes* in the sample.

- 11. The method according to claim 10, wherein said first polynucleotide primer comprises a sequence as set forth in SEQ ID NO:31, said second polynucleotide primer comprises a sequence as set forth in SEQ ID NO:32 and said polynucleotide probe comprises a sequence as set forth in SEQ ID NO:33, or the complement thereof.
- 12. The method according to claim 10 or 11, further comprising a step to enrich the microbial content of the test sample prior to step (a).
- 13. A kit for the detection of L. monocytogenes in a sample, said kit comprising:
 - a first polynucleotide primer comprising at least 7 nucleotides of the sequence as set forth in SEQ ID NO:1;
 - (b) a second polynucleotide primer comprising at least 7 nucleotides of a sequence complementary to SEQ ID NO:1; and
 - (c) a polynucleotide probe comprising at least 7 consecutive nucleotides of the sequence as set forth in SEQ ID NO:29, or the complement thereof.
- 14. The kit according to claim 13, wherein said polynucleotide probe comprises at least 7 consecutive nucleotides of the sequence as set forth in SEQ ID NO:30, or the complement thereof.
- 15. The kit according to claim 13 or 14, wherein said first and second polynucleotide primers comprise at least 7 consecutive nucleotides of the sequence as set forth in any one of SEQ ID NOs: 2 to 28, or the complement thereof.
- 16. The kit according to any one of claims 13, 14 or 15, wherein said first and second primer amplify a portion of a *L. monocytogenes hlyA* gene is less than or equal to 140 nucleotides in length.
- 17. The kit according to any one of claims 13 to 16, wherein said first polynucleotide primer comprises at least 7 consecutive nucleotides of the

sequence as set forth in SEQ ID NO:31 and said second polynucleotide primer comprises at least 7 consecutive nucleotides of the sequence as set forth in SEQ ID NO:32.

- 18. The kit according to any one of claims 13 to 17, wherein said first polynucleotide primer comprises a sequence as set forth in SEQ ID NO:31, said second polynucleotide primer comprises a sequence as set forth in SEQ ID NO:32 and said polynucleotide probe comprises a sequence as set forth in SEQ ID NO:33, or the complement thereof.
- 19. An isolated *L. monocytogenes* specific polynucleotide having the sequence as set forth in SEQ ID NO:29, or the complement thereof.
- 20. A polynucleotide primer of between 7 and 100 nucleotides in length for the amplification of a portion of a *L. monocytogenes hlyA* gene, said polynucleotide comprising the sequence as set forth in any one of: SEQ ID NOs:31, 32, 34 or 36.
- 21. A polynucleotide probe of between 7 and 70 nucleotides in length for detection of L. monocytogenes, said polynucleotide probe comprising at least 7 consecutive nucleotides of the sequence as set forth in SEQ ID NO:30, or the complement thereof.
- 22. The polynucleotide probe according to claim 21, wherein said polynucleotide comprises the sequence as set forth in SEQ ID NO:34, or the complement thereof.
- 23. The polynucleotide probe according to claim 22, wherein said polynucleotide comprises the sequence as set forth in any one of SEQ ID NOs:33, 34, 35, or 36.

24. The polynucleotide probe according to any one of claims 21, 22 or 23, wherein said polynucleotide further comprises a fluorophore, a quencher, or a combination thereof.